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L1 ANSWER 55 OF 72 CA COPYRIGHT 2004 ACS on STN  
AN 72:15355 CA  
ED Entered STN: 12 May 1984  
TI Fire-resistant board  
IN Shisko, Walter S.  
PA Domtar Ltd.  
SO Can., 8 pp.  
CODEN: CAXXA4  
DT Patent  
LA English  
CC 57 (Ceramics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	CA 821990		19690902	CA	19670711	
AB	A board of mineral wool fiber 50-70, asbestos fiber 5-15, clay, starch, wax, and other conventional additive 5-10%, contains 1-20% <b>unexpanded vermiculite</b> . The board expands on firing, owing to the expansion of <b>unexpanded vermiculite</b> , thereby reducing the heat penetration while retaining sufficient strength to prevent the board from disintegrating. In a standard Underwriters test, the thermal properties of a 5/8-in. board without vermiculite was about equal in thermal cond. to a 1/2 in. (before firing) board contg. 10% <b>unexpanded vermiculite</b> . In another test, a board contg. 8.9% <b>unexpanded vermiculite</b> increased 24% in thickness on firing, while retaining good strength.					
ST	fire resistant board vermiculite; board fire resistant vermiculite; vermiculite fire resistant board					
IT	Building materials (boards, asbestos-mineral wool-vermiculite)					
IT	Mineral wool					

L1 ANSWER 36 OF 72 CA COPYRIGHT 2004 ACS on STN

AN 100:38763 CA

ED Entered STN: 12 May 1984

TI Heat-resistant elastic sheets

PA Ibigawa Electric Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC D21H005-18; B29J001-02

CC 58-4 (Cement, Concrete, and Related Building Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 58144196	A2	19830827	JP 1982-19757	19820212
	JP 02029799	B4	19900702		

PRAI JP 1982-19757 19820212

AB Heat-resistant elastic sheets are made from a slurry contg. ceramic fibers 60-85, .alpha.-sepiolite 5-20, **unexpanded vermiculite** 5-22, and an org. binder 5-15% by shaping to sheets, dewatering, drying at 100-110.degree., and pressing. Thus, 8000 mL water was mixed with .alpha.-sepiolite 47, ceramic fibers 205, vermiculite 32 g, an acrylonitrile-butadiene system latex 79, 0.5% polyacrylamide [9003-05-8] coagulant soln. 230, and 10% Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> soln. 15 mL, shaped to a sheet, dewatered by pressing, dried at 110.degree., and pressed to give a 5 mm-thick sheet having bulk d. 0.7 g/cm<sup>3</sup> and high elasticity and heat resistance.

ST sepiolite vermiculite ceramic fiber sheet

IT Rubber, butadiene, uses and miscellaneous

RL: USES (Uses)

(acrylonitrile-, in ceramic fiber elastic